

**PERMIT APPLICATION:** NRS#04.346

**APPLICANT:** RFM Development Company  
Attn: Mr. Russ Morris  
104 Woodmont Boulevard  
Suite 405  
Nashville, TN 37205  
(615) 627-4952

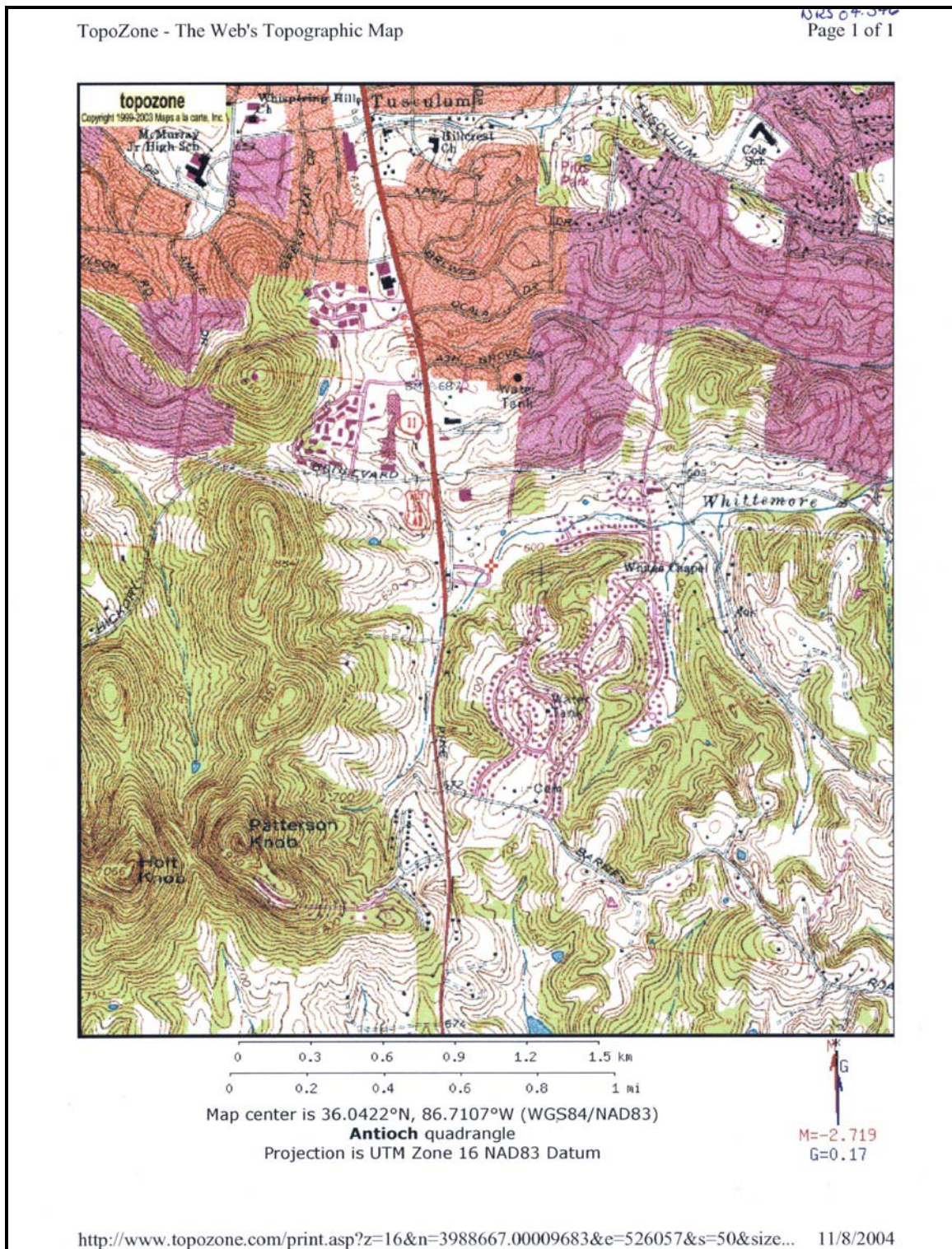
**LOCATION:** Whittemore Branch and an unnamed tributary  
Davidson County

**WATERSHED DESCRIPTION:** This project is located on Nolensville Road south of the intersection with Old Hickory Boulevard in Nashville, Davidson County, TN. The 43.3 acre property is bisected by Whittemore Branch. The creek flows from Nolensville Road on the southwest side of the property through an existing trailer park prior to exiting on the northeast side of the property. The creek flows into a sinkhole approximately 600 feet downstream of the property. An unnamed tributary flows from the west side of Nolensville Road through an existing trailer park prior to discharging into Whittemore Branch. A portion of this channel that parallels Nolensville Road has been downcutting. Both creeks have been impacted by urban development with accumulations of litter and previous sewer discharges in the unnamed tributary. A survey for *Orconectes shoupi* was conducted on September 24, 2004. No specimens were found inhabiting the affected stretches of Whittemore Branch or the unnamed tributary. A qualitative benthic macroinvertebrate survey was conducted on November 12, 2004. Water quality measurements in both Whittemore Branch and the unnamed tributary represent stream conditions suitable to support aquatic life. Benthic macroinvertebrates within the unnamed tributary were limited to fly larvae, water striders, aquatic beetles, and snails. Few crayfish (*Orconectes durrelli*) were present and one fish species (creek chub) was collected. Whittemore Branch collections indicated the presence of mayflies, caddisflies, aquatic beetles, water striders, dragonfly larvae, fly larvae, and snails. *Orconectes durrelli* was also common. Two fish species, the central stoneroller and creek chub, were also collected.

**PROJECT DESCRIPTION:** The applicant proposes six road crossings for a total of 264 feet on Whittemore Branch. These crossings will be prefabricated and will cross the creek as close to perpendicular as possible. Spans will be approximately 12 feet to 18 feet above the bottom of the creek bed. "Window" areas will be left as buffer between the spans along Whittemore Branch. In areas where there is existing vegetation, a large enough area will be left to keep the existing trees around the creek. The applicant also proposes a 15-inch or 18-inch sewer line crossing. There will be no blasting within 25 feet of the top of bank. In the trailer park area, the existing pavement will be removed along with the trailers and debris. Native trees, such as blackgum, sweetgum, tulip poplar, river birch, and red maple, will be planted in an effort to return the area to its natural state. Vegetated areas will be created on the south side of the property and around the unnamed tributary in an effort to return the area to a more natural state. Both Whittemore Branch and the unnamed tributary will be cleaned of debris. Three existing culverts will be removed, two on Whittemore Branch and one on the unnamed tributary. Approximately 50 feet of the unnamed tributary that parallels Nolensville Road will be stabilized to prevent further down-cutting of the channel.

**PERMIT COORDINATOR:** Kelly Morrison

**USGS TOPOGRAPHIC QUADRANGLE:** Antioch (311-SW)





Plan drawing